

CLAIMS

1. Manufacturing method for obtaining improved high-performance components (110) for gas
5 turbines, characterized in that it includes at least one process involving powder sintering or powder metallurgy with homogeneous/heterogeneous dispersion of said powders.
2. Manufacturing method according to Claim 1,
10 characterized in that said powders are metallic and non-metallic.
3. Manufacturing method according to Claim 1,
characterized in that said dispersion of said
15 powders is performed in a predefined manner resulting in suitable concentrations of said powders in suitably designated zones.
4. Manufacturing method according to Claim 1,
characterized in that said dispersion of said
20 powders is performed in a predefined manner resulting in perfect fixing to metal surfaces in a zone (16) forming an interface and bond with internal bodies (12) produced by means of microfusion or mechanical machining.

5. Manufacturing method according to Claim 1, characterized in that said dispersion of said powders is performed with suitable balancing and dispersion of said powders which produces different chemical/physical properties in different points of said components.
6. Improved high-performance components (110) for gas turbines, characterized in that they are obtained by means of at least one process involving powder sintering or powder metallurgy with homogeneous/heterogeneous dispersion of said powders.
7. Improved high-performance components (110) according to Claim 6, characterized in that distribution of said powders results in maximum refractoriness and resistance in respect of hot gases.
8. Improved high-performance components (110) according to Claim 6, characterized in that distribution of said powders results in perfect fixing to metal surfaces in a zone (16) forming an interface and bond with internal bodies (12) produced by means of microfusion or mechanical machining.